## Scenario Worksheet

## Practice and Scenario Description:

Tradelec alla decilario Desempti	VIII					
Information Type	Data					
Region	Appalachian					
State	North Carolina					
Discipline Group	Engineering General					
Practice Code/Name	521D - Pond Sealing or Lining, Comp	acted Clay Treatment				
Scenario ID	2					
Scenario Name	Material haul ≥ 1 mile					
Scenario Description	implementation includes compaction of	treated with compacted clay, to reduce seepage from ponds or waste storage impoundment structures. Practice f the soil liner under proper moisture conditions to the designed liner thickness, and protection of the finished liner. Material ide P\$378, P\$313, & other waste water impoundments.				
Before Practice Situation		In-place soils at site exhibit seepage rates in excess of acceptable limits. An adequate quantity of soil suitable for constructing a clay liner without amendments is available at an economical haul distance.				
After Practice Situation	Water conservation and environmental	protection provided by limiting seepage losses from ponds or waste storage impoundments.				
Scenario Feature Measure	Volume of Liner Material (including vol	ume of soil cover, as needed)				
Scenario Unit	Cubic Yard					
Scenario Typical Size	2420	Typical pond liner 12" thick & 6" thick soil cover x 1 acre in area				

## Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit		
Materials	\$0.00	\$0.00		
Equipment/Installation	\$22,415.90	\$9.26		
Labor	\$600.56	\$0.25		
Mobilization	\$1,076.00	\$0.44		
Acquisition of Technical Knowledge	\$0.00	\$0.00		
Foregone Income	\$0.00	\$0.00		
Total	\$24,092.46	\$9.96		

## Cost Details:

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Cost Category	Component ID	Component Name	·	Unit	Price (\$/unit)	Quantity	Cost
			Earthfill, roller or machine compacted,				
Equipment/Installation	49	Earthfill, Roller Compacted	includes equipment and labor	Cubic yard	\$3.17	2420	\$7,671.40
			Hauling of bulk earthfill, rockfill, waste or				
			debris. One-way travel distance using fully				
			loaded highway dump trucks (typically 16 CY				
			or 20 TN capacity). Includes equipment and labor for truck only. Does not include cost for	Cubi- Vand			
Facilities and American	4645	Hauling hulk highway truck	loading truck.	Mile	ć0.20	0005	ć2 250 20
Equipment/Installation	1615	Hauling, bulk, highway truck	Bulk excavation of common earth including	iville	\$0.28	8065	\$2,258.20
			sand and gravel with dozer >100 HP with				
		Excavation, common earth, large	average push distance of 150 feet. Includes				
Equipment/Installation	1223	equipment, 150 ft	equipment and labor.	Cubic Yard	\$3.36	807	\$2,711.52
Equipment, installation	1225	equipment, 150 fc	Bulk excavation of clay with scrapers with	Cubic ruru	<b>\$3.30</b>	507	Q2,711.32
		Excavation, clay, large equipment,	average haul distance of 1500 feet. Includes				
Equipment/Installation	1217	1500 ft	equipment and labor.	Cubic Yard	\$6.06	1613	\$9,774.78
							,
			Labor requiring a specialized skill set: Includes				
			Agronomists, Foresters, Biologists, etc. to				
			provide additional technical information				
			during the planning and implementation of				
			the practice. Does not include NRCS or TSP				
Labor	235	Specialist Labor	services.	Hour	\$75.07	8	\$600.56
			Equipment with 70-150 HP or typical weights				
Mobilization	1139	Mobilization, medium equipment	between 14,000 and 30,000 pounds.	Each	\$92.60	1	\$92.60
			Equipment >150HP or typical weights greater				
n a - letter-stere		Ad-bili-bi lane and	than 30,000 pounds or loads requiring over	F	ć472.20		¢540.60
Mobilization	1140	Mobilization, large equipment	width or over length permits.	Each	\$173.20	3	\$519.60
			Mobilization of Specialist Labor. Includes				
Mobilization	1146	Mobilization, Specialist Labor	•	Hour	\$77.30	6	\$463.80
IVIODIIIZALIOIT	1140	ivioniization, specialist Labor	Agronomists, Foresters, Biologists, etc.	Houi	\$11.50	O	2403.0U